

## INTERNATIONAL SEARCH REPORT

10/54 1005  
Rec'd PCT/PTO 28 JUN 2005  
PCT/IB 03/06251A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H04B1/707 H04L25/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H04B H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 0 876 002 A (LUCENT TECHNOLOGIES INC) 4 November 1998 (1998-11-04) page 6, line 11 -page 7, line 4; figures 4,5 page 12, line 23 -page 15, line 9; claims 1-23; figures 22,23	1-20
Y	WO 02/09375 A (MENGALI UMBERTO ;MORELLI MICHELE (IT); MASCIARELLI ALESSANDRO (IT)) 31 January 2002 (2002-01-31) cited in the application page 3, line 17 -page 4, line 14 page 4, line 24 - line 29 page 7, line 15 -page 8, line 7; claims 1-9	1-20

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

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Date of the actual completion of the international search

16 April 2004

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Nilsson, M

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/093768 A (INTEL CORP) 21 November 2002 (2002-11-21)  page 2, line 26 -page 3, line 21 page 5, line 7 -page 6, line 19; figure 3A page 8, line 17 -page 10, line 14; figure 3B page 12, line 13 -page 14, line 14 page 18, line 18 -page 21, line 32  -----	1,2, 10-12, 15-19
X	EP 1 143 630 A (CIT ALCATEL) 10 October 2001 (2001-10-10)  paragraphs '0026!-'0031!,'0047!-'0064!; figure 3  -----	1,2, 10-12, 15-19

## INTERNATIONAL SEARCH REPORT

PCT/IB 03/06251

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0876002	A	04-11-1998	US 6067292 A	23-05-2000
			EP 0876002 A2	04-11-1998
			JP 10327126 A	08-12-1998
			KR 263801 B1	16-08-2000
WO 0209375	A	31-01-2002	IT TS20000004 A1	21-01-2002
			AU 2458902 A	05-02-2002
			WO 0209375 A1	31-01-2002
WO 02093768	A	21-11-2002	US 2003021337 A1	30-01-2003
			WO 02093768 A1	21-11-2002
EP 1143630	A	10-10-2001	EP 1143630 A1	10-10-2001
			CN 1321016 A	07-11-2001
			JP 2001308743 A	02-11-2001
			US 6718162 B1	06-04-2004